

Release notes for ENDF/B Development n-007_N_014
evaluation

ENDF
B-VII.dev

April 26, 2017

- fudge-4.0 Errors:

1. The file is missing a big chunk of data (I bet it's gamma data isn't it?)
Reading ENDF file: ../n-007_N_014.endf (Error # 0): Missing data

WARNING: MT = 28 has MF = 13, 14 data and no MF 3 data

2. The file is missing a big chunk of data (I bet it's gamma data isn't it?)
Reading ENDF file: ../n-007_N_014.endf (Error # 1): Missing data

WARNING: MT = 32 has MF = 13, 14 data and no MF 3 data

3. Calculated and tabulated Q values disagree.
reaction label 28: $n[\text{multiplicity:}'2'] + N13$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10795606.03715515 eV vs -10553470. eV!

4. Calculated and tabulated Q values disagree.
reaction label 29: $H1 + C14$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 851384.5695381165 eV vs 625876.1 eV!

5. Calculated and tabulated Q values disagree.
reaction label 30: $H1 + C14.e1$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5242416.530462265 eV vs -5467925. eV!

6. Calculated and tabulated Q values disagree.
reaction label 31: $H1 + C14.e2$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5738016.530462265 eV vs -5963525. eV!

7. Calculated and tabulated Q values disagree.
reaction label 32: $H1 + C14.e3$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5876816.530462265 eV vs -6102325. eV!

8. Calculated and tabulated Q values disagree.
reaction label 33: $H1 + C14.e4$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6051216.530462265 eV vs -6276725. eV!

9. Calculated and tabulated Q values disagree.
reaction label 34: $H1 + C14.e5$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6160616.530462265 eV vs -6386125. eV!

10. Calculated and tabulated Q values disagree.
reaction label 35: $H1 + C14.e6$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6490017.530462265 eV vs -6715526. eV!

11. Calculated and tabulated Q values disagree.
reaction label 36: H2 + C13 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5002107.604207993 eV vs -5326044. eV!
12. Calculated and tabulated Q values disagree.
reaction label 37: H2 + C13_e1 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8091508.604207993 eV vs -8415445. eV!
13. Calculated and tabulated Q values disagree.
reaction label 38: H2 + C13_e2 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8686608.604207993 eV vs -9010545. eV!
14. Calculated and tabulated Q values disagree.
reaction label 39: H2 + C13_e3 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8855908.604207993 eV vs -9179845. eV!
15. Calculated and tabulated Q values disagree.
reaction label 42: He4 + B11 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 124346.7678394318 eV vs -158297. eV!
16. Calculated and tabulated Q values disagree.
reaction label 43: He4 + B11_e1 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2000344.232160568 eV vs -2282988. eV!
17. Calculated and tabulated Q values disagree.
reaction label 44: He4 + B11_e2 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4320544.232160568 eV vs -4603188. eV!
18. Calculated and tabulated Q values disagree.
reaction label 45: He4 + B11_e3 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4895964.232160568 eV vs -5178608. eV!
19. Calculated and tabulated Q values disagree.
reaction label 46: He4 + B11_e4 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6618555.232160568 eV vs -6901199. eV!
20. Calculated and tabulated Q values disagree.
reaction label 47: He4 + B11_e5 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6667455.232160568 eV vs -6950099. eV!
21. Calculated and tabulated Q values disagree.
reaction label 48: He4 + B11_e6 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7161165.232160568 eV vs -7443809. eV!

22. Calculated and tabulated Q values disagree.
reaction label 49: He4 + B11_e7 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7853495.232160568 eV vs -8136139. eV!

23. Calculated and tabulated Q values disagree.
reaction label 50: He4 + B11_e8 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8435955.232160568 eV vs -8718599. eV!

24. Calculated and tabulated Q values disagree.
reaction label 51: He4 + B11_e9 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8795855.232160568 eV vs -9078499. eV!

25. Calculated and tabulated Q values disagree.
reaction label 52: He4 + B11_e10 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9060655.232160568 eV vs -9343299. eV!

26. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (12060000.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

27. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__a
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (10988000.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

28. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__b
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

29. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__c
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

30. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__d
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9380002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

31. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__e
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9380002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

32. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_f
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (8642721.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

33. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_g
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (8540771.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

34. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_h
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7535441.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

35. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_i
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

36. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_j
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6910500.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

37. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_k
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6650350.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

38. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_l
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6254502.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

39. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_m
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6101405.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

40. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_n
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (5473677.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

41. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__p
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7535441.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

42. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__q
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9380002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

43. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__r
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (11524000.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

44. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__s
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (8540771.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

45. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__t
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (4232489.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

46. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__u
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6650350.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

47. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__v
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

48. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__w
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9101444.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

49. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma__x
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (6101405.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

50. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_y
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

51. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_z
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

52. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_aa
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (7535441.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

53. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ab
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9380002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

54. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ac
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (5473677.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

55. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ad
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

56. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ae
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

57. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_af
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9101444.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

58. Energy range of data set does not match cross section range
*production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ag
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9380002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

59. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ah
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6910500.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

60. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_aj
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (9916002.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

61. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_al
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6910500.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

62. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_am
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5473677.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

63. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_an
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5269144.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

64. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ao
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6254502.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

65. Energy range of data set does not match cross section range
production label 56: /reactionSuite/reactions/production[@label='56'] / Product: gamma_ap
/ Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6910500.0 -> 150000000.0) vs (2479394.0 -> 150000000.0)

- njoy2012 Warnings:

1. This nuclide has no URR and NJOY is upset about it
unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 725 has no resonance parameters
copy as is to nout

2. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (0): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 600

3. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (1): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 601

4. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (2): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 602

5. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (3): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 603

6. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (4): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 604

7. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (5): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 605

8. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (6): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 606

9. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (7): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 650
10. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (8): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 651
11. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (9): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 652
12. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (10): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 653
13. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (11): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 700
14. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (12): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 701
15. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the

proper sections of File 4 or 6.
heatr...prompt kerma (13): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 800

16. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (14): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 801

17. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (15): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 802

18. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (16): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 803

19. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (17): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 804

20. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (18): HEATR/hinit (1)

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 805

21. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (19): HEATR/hinit (1)

- message from hinit---mf4 and 6 missing, isotropy assumed for mt 806
22. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (20): HEATR/hinit (1)
- message from hinit---mf4 and 6 missing, isotropy assumed for mt 807
23. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (21): HEATR/hinit (1)
- message from hinit---mf4 and 6 missing, isotropy assumed for mt 808
24. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (22): HEATR/hinit (1)
- message from hinit---mf4 and 6 missing, isotropy assumed for mt 809
25. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.
heatr...prompt kerma (23): HEATR/hinit (1)
- message from hinit---mf4 and 6 missing, isotropy assumed for mt 810
26. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (24): HEATR/hinit (4)
- message from hinit---mf6, mt 16 does not give recoil za= 7013
one-particle recoil approx. used.
27. This nuclide has no URR and NJOY is upset about it
purrr...probabalistic unresolved calculation (0): No URR
- message from purrr---mat 725 has no resonance parameters
copy as is to nout
28. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (0): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.701311E-12 with q.lt.0 for (n,x) at e 1.000000E-11 -> 1.000000E-11

29. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (1): ACER/check energy distributions (0)
- ```

check energy distributions
consis: awr.lt.180---this is probably an error.

```
30. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (2): ACER/check energy distributions (0)*
- ```

check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution

```
31. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (3): ACER/check energy distributions (0)
- ```

check energy distributions
consis: ep.gt.epmax 2.001301E+01 with q.lt.0 for (n,x) at e 2.300000E+01 -> 2.005538E+01

```
32. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (4): ACER/check energy distributions (0)*
- ```

check energy distributions
consis:   awr.lt.180---this is probably an error.

```
33. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (5): ACER/check energy distributions (0)
- ```

check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution

```
34. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (6): ACER/check energy distributions (0)*
- ```

check energy distributions
consis: ep.gt.epmax 2.610393E+01 with q.lt.0 for (n,x) at e 3.000000E+01 -> 2.658504E+01

```
35. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (7): ACER/check energy distributions (0)
- ```

check energy distributions
consis: awr.lt.180---this is probably an error.

```
36. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (8): ACER/check energy distributions (0)*
- ```

check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution

```
37. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (9): ACER/check energy distributions (0)
- ```

check energy distributions
consis: ep.gt.epmax 3.045458E+01 with q.lt.0 for (n,x) at e 3.500000E+01 -> 3.124908E+01

```

38. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (10): ACER/check energy distributions (0)*

```
check energy distributions
consis: awr.lt.180---this is probably an error.
```

39. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (11): ACER/check energy distributions (0)*

```
check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
```

40. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (12): ACER/check energy distributions (0)*

```
check energy distributions
consis: ep.gt.epmax 1.044156E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.049409E+02
```

41. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (13): ACER/check energy distributions (0)*

```
check energy distributions
consis: awr.lt.180---this is probably an error.
```

42. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (14): ACER/check energy distributions (0)*

```
check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
```

• **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution  
*0: Bad Ang. Dist.*

```
ACELST WARNING - Processing Ang.Dist.MT 2
 E-grid non-monotonic 2.000000000E+01 2.000000000E+01
```

• **xsectplotter** Errors:

1. The file is missing a big chunk of data (I bet it's gamma data isn't it?)  
*(Error # 2): Missing data*

```
WARNING: MT = 28 has MF = 13, 14 data and no MF 3 data
```

2. The file is missing a big chunk of data (I bet it's gamma data isn't it?)  
*(Error # 3): Missing data*

```
WARNING: MT = 32 has MF = 13, 14 data and no MF 3 data
```